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* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS	3	JUN 06	KOREAPAT updated with 41,000 documents
NEWS	4	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS	5	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS	6	JUN 25	CA/CAPLUS and USPAT databases updated with IPC reclassification data
NEWS	7	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS	8	JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS	9	JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS	10	JUN 30	STN AnaVist enhanced with database content from EPFULL
NEWS	11	JUL 28	CA/CAPLUS patent coverage enhanced
NEWS	12	JUL 28	EPFULL enhanced with additional legal status information from the epoline Register
NEWS	13	JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS	14	JUL 28	STN Viewer performance improved
NEWS	15	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced
NEWS	16	AUG 13	CA/CAPLUS enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS	17	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS	18	AUG 15	CAPLUS currency for Korean patents enhanced
NEWS	19	AUG 27	CAS definition of basic patents expanded to ensure comprehensive access to substance and sequence information
NEWS	20	SEP 18	Support for STN Express, Versions 6.01 and earlier, to be discontinued
NEWS	21	SEP 25	CA/CAPLUS current-awareness alert options enhanced to accommodate supplemental CAS indexing of exemplified prophetic substances
NEWS	22	SEP 26	WPIDS, WPINDEX, and WPIX coverage of Chinese and Korean patents enhanced
NEWS	23	SEP 29	IFICLS enhanced with new super search field
NEWS	24	SEP 29	EMBASE and EMBAL enhanced with new search and display fields
NEWS	25	SEP 30	CAS patent coverage enhanced to include exemplified prophetic substances identified in new Japanese-language patents

NEWS 26 OCT 07 EPPFULL enhanced with full implementation of EPC2000
NEWS 27 OCT 07 Multiple databases enhanced for more flexible patent
number searching

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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NEWS IPC8 For general information regarding STN implementation of
IPC 8

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* * * * * STN Columbus * * * * *

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=> file registry

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FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 09:25:22 ON 21 OCT 2008

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STRUCTURE FILE UPDATES: 19 OCT 2008 HIGHEST RN 1063403-85-9

DICTIONARY FILE UPDATES: 19 OCT 2008 HIGHEST RN 1063403-85-9

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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<http://www.cas.org/support/stngen/stdnc/properties.html>

=> s hybrane s1200

37 HYBRANE

0 S1200

L1 0 HYBRANE S1200

(HYBRANE(W)S1200)

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=> s hybrane
L2          37 HYBRANE

=> d L2 1-37

L2  ANSWER 1 OF 37  REGISTRY  COPYRIGHT 2008 ACS on STN
RN  1033330-09-4  REGISTRY
ED  Entered STN:  10 Jul 2008
CN  ***1,3-Propanediol, 2,2-bis(hydroxymethyl)-, polymer with Hybrane
P 1000***
    *** and 1,3,5-triazine-2,4,6-triamine phosphate (1:1)*** (CA
INDEX NAME)
MF  (C5 H12 O4 . C3 H6 N6 . H3 O4 P . Unspecified)x
CI  PMS
PCT Manual component, Polyether, Polyether only
SR  CA
LC  STN Files:  CA, CAPLUS

    CM  1

    CRN  811810-58-9
    CMF  Unspecified
    CCI  PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

    CM  2

    CRN  115-77-5
    CMF  C5 H12 O4

/ Structure 1 in file .gra /

    CM  3

    CRN  20208-95-1
    CMF  C3 H6 N6 . H3 O4 P

    CM  4

    CRN  7664-38-2
    CMF  H3 O4 P

/ Structure 2 in file .gra /

    CM  5

    CRN  108-78-1
    CMF  C3 H6 N6

/ Structure 3 in file .gra /

    1 REFERENCES IN FILE CA (1907 TO DATE)
    1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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L2 ANSWER 2 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 1028669-30-8 REGISTRY
ED Entered STN: 17 Jun 2008
CN ***Hybrane P/S 60*** (CA INDEX NAME)
ENTE A hydroxy-containing hyperbranched polyamide-polyester (DSM Hybrane B.V.)
MF Unspecified
CI PMS, MAN
PCT Manual registration
SR CA
LC STN Files: CA, CAPLUS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 3 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 1021902-16-8 REGISTRY
ED Entered STN: 22 May 2008
CN ***Hybrane PB 2295*** (CA INDEX NAME)
ENTE A dendrimer (DSM Hybrane BV)
MF Unspecified
CI PMS, MAN
PCT Manual registration
SR CA
LC STN Files: CA, CAPLUS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 4 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 958460-98-5 REGISTRY
ED Entered STN: 18 Dec 2007
CN ***Hybrane SIP 2100*** (CA INDEX NAME)
ENTE A hyperbranched polyester-polyamide (DSM)
MF Unspecified
CI PMS, MAN
PCT Manual registration
SR CA
LC STN Files: CA, CAPLUS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 5 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 887701-19-1 REGISTRY
ED Entered STN: 14 Jun 2006
CN ***Hybrane SC 120050 (9CI)*** (CA INDEX NAME)
ENTE A hyperbranched polyester-polyamide (DSM)
MF Unspecified
CI PMS, MAN
PCT Manual registration
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 6 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 866139-98-2 REGISTRY
 ED Entered STN: 26 Oct 2005
 CN ***Hybrane D 2000, 2-[4-(diethylamino)-2-hydroxybenzoyl]
 benzoate***
 *** 4-(dimethylamino)benzoate (9CI)*** (CA INDEX NAME)
 MF C18 H19 N O4 . x C9 H11 N O2 . x Unspecified
 PCT Manual registration
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 367513-09-5
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 5809-23-4
 CMF C18 H19 N O4

/ Structure 4 in file .gra /

CM 3

CRN 619-84-1
 CMF C9 H11 N O2

/ Structure 5 in file .gra /

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 7 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 866139-97-1 REGISTRY
 ED Entered STN: 26 Oct 2005
 CN ***Benzoic acid, 4-(dimethylamino)-, compd. with Hybrane D 2000
 (9CI)***
 (CA INDEX NAME)
 MF C9 H11 N O2 . x Unspecified
 PCT Manual registration
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 367513-09-5
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 619-84-1
CMF C9 H11 N O2

/ Structure 6 in file .gra /

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 8 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 811810-58-9 REGISTRY
ED Entered STN: 12 Jan 2005
CN ***Hybrane P 1000 (9CI)*** (CA INDEX NAME)
ENTE A hyperbranched polyesteramide modifier (DSM)
MF Unspecified
CI PMS, COM, MAN
PCT Manual registration
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 9 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 748800-38-6 REGISTRY
ED Entered STN: 21 Sep 2004
CN ***Hybrane HA 1695 (9CI)*** (CA INDEX NAME)
ENTE A hyperbranched poly(esteramide) resin prepared from
hexahydrophthalic
acid and diisopropanolamine terminated with dimethylamino groups
(DSM)
MF Unspecified
CI PMS, MAN
PCT Manual registration
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 10 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 625454-59-3 REGISTRY
ED Entered STN: 11 Dec 2003
CN ***Hybrane HM 1860 (9CI)*** (CA INDEX NAME)
ENTE A hyperbranched polyesteramide (DSM)
MF Unspecified
CI PMS, MAN
PCT Manual registration
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 11 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 501664-90-0 REGISTRY
ED Entered STN: 04 Apr 2003
CN ***Hybrane PS 80 (9CI)*** (CA INDEX NAME)
ENTE A COOH-terminated hyperbranched polyester amide (DSM Corp.)
MF Unspecified
CI PMS, MAN
PCT Manual registration
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 12 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 479409-51-3 REGISTRY
ED Entered STN: 17 Jan 2003
CN ***Hybrane SPIBC (9CI)*** (CA INDEX NAME)
ENTE A dendrimeric cpd. based on units composed of succinic anhydride
and
diisopropanolamine, wherein 20-75% end OH groups are modified with
poly(isobutenyl)succinic anhydride
MF Unspecified
CI PMS, MAN
PCT Manual registration
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 13 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 479408-74-7 REGISTRY
ED Entered STN: 17 Jan 2003
CN ***Hybrane SVPC 152020 (9CI)*** (CA INDEX NAME)
ENTE A dendrimeric cpd. based on units composed of succinic anhydride
and
diisopropanolamine, 20% end hydroxyl grps. reacted with
poly(isobutenyl)succinic anhydride and 20% esterified with coco
fatty acid
MF Unspecified
CI PMS, MAN
PCT Manual registration
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 14 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 479408-73-6 REGISTRY
ED Entered STN: 17 Jan 2003
CN ***Hybrane SVPC 152050 (9CI)*** (CA INDEX NAME)
ENTE A dendrimeric cpd. based on units composed of succinic anhydride
and
diisopropanolamine, 50% end hydroxyl grps. reacted with
poly(isobutenyl)succinic anhydride and 20% esterified with coco

fatty acid
MF Unspecified
CI PMS, MAN
PCT Manual registration
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 15 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 457881-43-5 REGISTRY
ED Entered STN: 02 Oct 2002
CN ***Hybrane HS 2550 (9CI)*** (CA INDEX NAME)
ENTIE A semi-crystalline hyperbranched polyester-amide resist polymer
synthesized from diisopropanolamine and an anhydride (DSM, Holland)
MF Unspecified
CI PMS, MAN
PCT Manual registration
SR CA
LC STN Files: CA, CAPLUS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 16 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 437617-93-1 REGISTRY
ED Entered STN: 08 Jul 2002
CN 2,5-Furandione, dihydro-, polymer with 1,1'-iminobis[2-propanol],
dodecanoate (ester) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Diisopropanolamine-succinic anhydride copolymer laurate
CN ***Hybrane SL 1410***
CN ***Hybrane SL 1520***
CN SL 1410
DR 599171-52-5
MF C12 H24 O2 . x (C6 H15 N O2 . C4 H4 O3)x
PCT Polyamine, Polyester, Polyester formed
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL

CM 1

CRN 143-07-7
CMF C12 H24 O2

/ Structure 7 in file .gra /

CM 2

CRN 362603-93-8
CMF (C6 H15 N O2 . C4 H4 O3)x
CCI PMS

CM 3

CRN 110-97-4
CMF C6 H15 N O2

/ Structure 8 in file .gra /

CM 4

CRN 108-30-5
CMF C4 H4 O3

/ Structure 9 in file .gra /

5 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 17 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 437617-91-9 REGISTRY
ED Entered STN: 08 Jul 2002
CN 2,5-Furandione, 3-dodecyldihydro-, polymer with dihydro-2,5-furandione and
1,1'-iminobis[2-propanol] (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Diisopropanolamine-dodecylsuccinic anhydride-succinic anhydride
copolymer
CN ***Hybrane S/D 101200***
MF (C16 H28 O3 . C6 H15 N O2 . C4 H4 O3)x
CI PMS
PCT Polyamine, Polyester, Polyester formed
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 2561-85-5
CMF C16 H28 O3

/ Structure 10 in file .gra /

CM 2

CRN 110-97-4
CMF C6 H15 N O2

/ Structure 11 in file .gra /

CM 3

CRN 108-30-5
CMF C4 H4 O3

/ Structure 12 in file .gra /

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 18 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 437617-89-5 REGISTRY
ED Entered STN: 08 Jul 2002
CN 2,5-Furandione, dihydro-, polymer with 1,1'-iminobis[2-propanol],
benzoate
(ester) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Diisopropanolamine-succinic acid anhydride copolymer benzoate
CN Diisopropanolamine-succinic anhydride copolymer benzoate
CN ***Hybrane SB 1210***
MF C7 H6 O2 . x (C6 H15 N O2 . C4 H4 O3)x
PCT Polyamine, Polyester, Polyester formed
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

CM 1

CRN 65-85-0
CMF C7 H6 O2

/ Structure 13 in file .gra /

CM 2

CRN 362603-93-8
CMF (C6 H15 N O2 . C4 H4 O3)x
CCI PMS

CM 3

CRN 110-97-4
CMF C6 H15 N O2

/ Structure 14 in file .gra /

CM 4

CRN 108-30-5
CMF C4 H4 O3

/ Structure 15 in file .gra /

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 19 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 367513-39-1 REGISTRY
ED Entered STN: 07 Nov 2001
CN ***Hybrane D/H 10-2000 (9CI)*** (CA INDEX NAME)
ENTE A functionalized dendrimeric terpolymer of: 2-dodecenylsuccinic
anhydride,

hexahydrophthalic anhydride, and diisopropanolamine (DSM)

MF Unspecified

CI PMS, MAN

PCT Manual registration

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 20 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN

RN 367513-14-2 REGISTRY

ED Entered STN: 07 Nov 2001

CN ***Hybrane DDC 20010 (9CI)*** (CA INDEX NAME)

ENTE A functionalized dendrimeric copolymer of 2-dodecenylsuccinic anhydride

and diisopropanolamine (DSM)

MF Unspecified

CI PMS, MAN

PCT Manual registration

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 21 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN

RN 367513-12-0 REGISTRY

ED Entered STN: 07 Nov 2001

CN ***Hybrane D 2800 (9CI)*** (CA INDEX NAME)

ENTE A functionalized dendrimeric copolymer of 2-dodecenylsuccinic anhydride

and diisopropanolamine (DSM)

MF Unspecified

CI PMS, MAN

PCT Manual registration

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 22 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN

RN 367513-09-5 REGISTRY

ED Entered STN: 07 Nov 2001

CN ***Hybrane D 2000 (9CI)*** (CA INDEX NAME)

ENTE A functionalized dendrimeric copolymer of 2-dodecenylsuccinic anhydride

and diisopropanolamine (DSM)

MF Unspecified

CI PMS, COM, MAN

PCT Manual registration

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 23 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 367513-08-4 REGISTRY
ED Entered STN: 07 Nov 2001
CN ***Hybrane D 1400 (9CI)*** (CA INDEX NAME)
ENTE A functionalized dendrimeric copolymer of 2-dodecenylsuccinic anhydride and diisopropanolamine (DSM)
MF Unspecified
CI PMS, MAN
PCT Manual registration
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 24 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 367510-17-6 REGISTRY
ED Entered STN: 07 Nov 2001
CN ***Hybrane HAP 1390 (9CI)*** (CA INDEX NAME)
ENTE A functionalized dendrimeric compound based on structural units of hexahydrophthalic anhydride, diisopropanolamine, and N-methylpiperazine (DSM)
MF Unspecified
CI PMS, MAN
PCT Manual registration
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 25 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 367510-15-4 REGISTRY
ED Entered STN: 07 Nov 2001
CN ***Hybrane H/D Am 90-1300 (9CI)*** (CA INDEX NAME)
ENTE A functionalized dendrimeric compound based on structural units of: hexahydrophthalic anhydride, diisopropanolamine, morpholine, and 2-dodecenylsuccinic anhydride (DSM)
MF Unspecified
CI PMS, MAN
PCT Manual registration
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 26 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 367510-14-3 REGISTRY
ED Entered STN: 07 Nov 2001
CN ***Hybrane HAM 67.5V1625 (9CI)*** (CA INDEX NAME)
ENTE A functionalized dendrimeric compound based on structural units of: hexahydrophthalic anhydride, diisopropanolamine, morpholine, and

COCO
 MF fatty acid (DSM)
 CI Unspecified
 PMS, MAN
 PCT Manual registration
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
 1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 27 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 367510-13-2 REGISTRY
 ED Entered STN: 07 Nov 2001
 CN ***Hybrane HAM 2490 (9CI)*** (CA INDEX NAME)
 ENTE A functionalized dendrimeric compound based on structural units of
 hexahydrophthalic anhydride, diisopropanolamine, and morpholine
 (DSM)
 MF Unspecified
 CI PMS, MAN
 PCT Manual registration
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
 1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 28 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 367510-12-1 REGISTRY
 ED Entered STN: 07 Nov 2001
 CN ***Hybrane HAM 1290 (9CI)*** (CA INDEX NAME)
 ENTE A functionalized dendrimeric compound based on structural units of
 hexahydrophthalic anhydride, diisopropanolamine, and morpholine
 (DSM)
 MF Unspecified
 CI PMS, MAN
 PCT Manual registration
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
 1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 29 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 367510-11-0 REGISTRY
 ED Entered STN: 07 Nov 2001
 CN ***Hybrane HA 5890 (9CI)*** (CA INDEX NAME)
 ENTE A functionalized dendrimeric compound based on structural units of:
 hexahydrophthalic anhydride, diisopropanolamine, and
 N,N-bis(3-dimethylaminopropyl)amine (DSM)
 MF Unspecified
 CI PMS, MAN
 PCT Manual registration
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 30 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 367510-10-9 REGISTRY
ED Entered STN: 07 Nov 2001
CN ***Hybrane HA 1550 (9CI)*** (CA INDEX NAME)
ENTE A functionalized dendrimeric compound based on structural units of:
hexahydrophthalic anhydride, diisopropanolamine, and
N,N-bis(3-dimethylaminopropyl)amine (DSM)
MF Unspecified
CI PMS, MAN
PCT Manual registration
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 31 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 367510-09-6 REGISTRY
ED Entered STN: 07 Nov 2001
CN ***Hybrane HA 1690*** (CA INDEX NAME)
OTHER NAMES:
CN ***Hybrane 1690***
ENTE A functionalized dendrimeric compound based on structural units of:
hexahydrophthalic anhydride, diisopropanolamine, and
N,N-bis(3-dimethylaminopropyl)amine (DSM)
MF Unspecified
CI PMS, MAN
PCT Manual registration
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 32 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 367510-07-4 REGISTRY
ED Entered STN: 07 Nov 2001
CN ***Hybrane HA 1300 (9CI)*** (CA INDEX NAME)
ENTE A functionalized dendrimeric compound based on structural units of:
hexahydrophthalic anhydride, diisopropanolamine, and
N,N-bis(3-dimethylaminopropyl)amine (DSM)
MF Unspecified
CI PMS, MAN
PCT Manual registration
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 33 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 362603-95-0 REGISTRY
ED Entered STN: 17 Oct 2001
CN 1,3-Isobenzofurandione, hexahydro-, polymer with dihydro-2,5-

furandione
and 1,1'-iminobis[2-propanol] (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2,5-Furandione, dihydro-, polymer with hexahydro-1,3-
isobenzofurandione
and 1,1'-iminobis[2-propanol] (9CI)
CN 2-Propanol, 1,1'-iminobis-, polymer with dihydro-2,5-furandione and
hexahydro-1,3-isobenzofurandione (9CI)
OTHER NAMES:
CN Diisopropanolamine-hexahydrophthalic anhydride-succinic anhydride
copolymer
CN H-SC 1540N
CN ***Hybrane H/S 801700***
CN Succinic anhydride-hexahydrophthalic anhydride-diisopropanol amine
copolymer
MF (C8 H10 O3 . C6 H15 N O2 . C4 H4 O3)x
CI PMS
PCT Polyamine, Polyester, Polyester formed
SR CAS Client Services
LC STN Files: CA, CAPLUS, CHEMLIST, USPAT2, USPATFULL
Other Sources: TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

CM 1

CRN 110-97-4
CMF C6 H15 N O2

/ Structure 16 in file .gra /

CM 2

CRN 108-30-5
CMF C4 H4 O3

/ Structure 17 in file .gra /

CM 3

CRN 85-42-7
CMF C8 H10 O3

/ Structure 18 in file .gra /

7 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 34 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 362603-94-9 REGISTRY
ED Entered STN: 17 Oct 2001
CN 1,3-Isobenzofurandione, polymer with dihydro-2,5-furandione and
1,1'-iminobis[2-propanol] (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2,5-Furandione, dihydro-, polymer with 1,1'-iminobis[2-propanol]
and

1,3-isobenzofurandione (9CI)
CN 2-Propanol, 1,1'-iminobis-, polymer with dihydro-2,5-furandione and
1,3-isobenzofurandione (9CI)

OTHER NAMES:

CN C*TobBrane 41200
CN Diisopropanolamine-phthalic anhydride-succinic anhydride copolymer
CN ***Hybrane P/S 801200***
MF (C8 H4 O3 . C6 H15 N O2 . C4 H4 O3)x
CI PMS
PCT Polyamine, Polyester, Polyester formed
SR CAS Client Services
LC STN Files: CA, CAPLUS, CHEMLIST, USPAT2, USPATFULL
Other Sources: TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

CM 1

CRN 110-97-4
CMF C6 H15 N O2

/ Structure 19 in file .gra /

CM 2

CRN 108-30-5
CMF C4 H4 O3

/ Structure 20 in file .gra /

CM 3

CRN 85-44-9
CMF C8 H4 O3

/ Structure 21 in file .gra /

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 35 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 362603-93-8 REGISTRY
ED Entered STN: 17 Oct 2001
CN 2,5-Furandione, dihydro-, polymer with 1,1'-iminobis[2-propanol]
(CA

INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Propanol, 1,1'-iminobis-, polymer with dihydro-2,5-furandione
(9CI)

OTHER NAMES:

CN Diisopropanolamine-succinic anhydride copolymer
CN Diisopropanolamine-succinic anhydride copolymer
CN ***Hybrane 1200***
CN ***Hybrane S 1***
CN ***Hybrane S 1200***
CN Succinic anhydride-diisopropanolamine copolymer

CN Topbrane S 1
DR 862377-89-7
MF (C6 H15 N O2 . C4 H4 O3)x
CI PMS, COM
PCT Polyamine, Polyester, Polyester formed
SR CAS Client Services
LC STN Files: CA, CAPLUS, CASREACT, CHEMLIST, TOXCENTER, USPAT2,
USPATFULL
Other Sources: TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

CM 1

CRN 110-97-4
CMF C6 H15 N O2

/ Structure 22 in file .gra /

CM 2

CRN 108-30-5
CMF C4 H4 O3

/ Structure 23 in file .gra /

27 REFERENCES IN FILE CA (1907 TO DATE)
8 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
27 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 36 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 243465-30-7 REGISTRY
ED Entered STN: 04 Oct 1999
CN 1,3-Isobenzofurandione, polymer with 1,1'-iminobis[2-propanol],
octadecanoate (ester) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Propanol, 1,1'-iminobis-, polymer with 1,3-isobenzofurandione,
octadecanoate (9CI)
OTHER NAMES:
CN ***Hybrane PS 2550***
DR 450410-34-1
MF C18 H36 O2 . x (C8 H4 O3 . C6 H15 N O2)x
PCT Polyamine, Polyester, Polyester formed
SR CAS Client Services
LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL

CM 1

CRN 57-11-4
CMF C18 H36 O2

/ Structure 24 in file .gra /

CM 2

CRN 222739-10-8

CMF (C8 H4 O3 . C6 H15 N O2)x
CCI PMS

CM 3

CRN 110-97-4
CMF C6 H15 N O2

/ Structure 25 in file .gra /

CM 4

CRN 85-44-9
CMF C8 H4 O3

/ Structure 26 in file .gra /

3 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 37 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 222739-11-9 REGISTRY
ED Entered STN: 14 May 1999
CN 1,3-Isobenzofurandione, hexahydro-, polymer with 1,1'-iminobis[2-propanol]
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Propanol, 1,1'-iminobis-, polymer with hexahydro-1,3-isobenzofurandione
(9CI)
OTHER NAMES:
CN 1,2-Cyclohexanedicarboxylic acid anhydride-di-2-propanolamine copolymer
CN 1,2-Cyclohexanedicarboxylic acid anhydride-diisopropanolamine copolymer
CN Diisopropanolamine-hexahydrophthalic anhydride copolymer
CN ***Hybrane 1500***
CN ***Hybrane H 1500***
DR 423164-03-8
MF (C8 H10 O3 . C6 H15 N O2)x
CI PMS, COM
PCT Polyamine, Polyester, Polyester formed
SR CA
LC STN Files: CA, CAPLUS, CHEMLIST, TOXCENTER, USPAT2, USPATFULL
Other Sources: TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

CM 1

CRN 110-97-4
CMF C6 H15 N O2

/ Structure 27 in file .gra /

CM 2

PB VSP
 DT Journal
 LA English
 CC 38-3 (Plastics Fabrication and Uses)
 AB With the emergence of exptl. and com. highly branched polymers (HBPs) having two or three dimensional morphologies with high peripheral functionality, new opportunities have been created for formulating and tailoring new architectures for thermoset adhesives and related adhesion promoters. A few adhesive systems were studied previously, where the crosslinking agents had been either totally or partially replaced by the HBPs. In epoxy and polyurethane systems addn. of poly-amido-amines (PAMAMs) HBPs, improved the mech. and thermal properties of the adhesives due to an increase of crosslinking d. and formation of modified multiphase morphologies having a high-energy absorption network. The effects of HBP PAMAM primers on the interfacial characteristics of epoxy and polyurethane bonded joints was studied, using various substrates (aluminum, magnesium, plastics and fibers) prior and after exposure to a combination of heat and humidity. The interfacial adhesion and the durability increase significantly (100-250%) in all the studied joints where PAMAMs were used for surface treatment.

ST dendritic polyamine polyamide adhesion promoter; epoxy resin adhesive; polyurethane adhesive

IT Joints, mechanical (adhesive; effect of hyperbranched polymers and dendrimers on interfacial adhesion of epoxy resin- and polyurethane-bonded metal and plastic joints)

IT Epoxy resins, uses
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (adhesive; effect of hyperbranched polymers and dendrimers on interfacial adhesion of epoxy resin- and polyurethane-bonded metal and plastic joints)

IT Polyamide fibers, uses
 RL: MOA (Modifier or additive use); USES (Uses) (aramid, epoxy resin composites; effect of hyperbranched polymers and dendrimers on interfacial adhesion of epoxy resin reinforced by)

IT Polybenzoxazoles
 RL: MOA (Modifier or additive use); USES (Uses) (fiber, poly(benzobisoxazolediylphenylene), epoxy resin composites; effect of hyperbranched polymers and dendrimers on interfacial adhesion of epoxy resin reinforced by)

IT Adhesion, physical
 (interfacial; effect of hyperbranched polymers and dendrimers on
 interfacial adhesion of epoxy resin- and polyurethane-bonded
 metal and
 plastic joints)

IT Synthetic polymeric fibers, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (poly(benzobisoxazolediylphenylene), epoxy resin composites;
 effect of
 hyperbranched polymers and dendrimers on interfacial adhesion of
 epoxy
 resin reinforced by)

IT Polyamines
 RL: TEM (Technical or engineered material use); USES (Uses)
 (polyamide-, dendrimers, adhesion promoters; effect of
 hyperbranched
 polymers and dendrimers on interfacial adhesion of epoxy resin-
 and
 polyurethane-bonded metal and plastic joints)

IT Polyesters, uses
 RL: MOA (Modifier or additive use); TEM (Technical or engineered
 material
 use); USES (Uses)
 (polyamide-, hyperbranched, adhesion promoter; effect of
 hyperbranched
 polymers and dendrimers on interfacial adhesion of epoxy resin-
 and
 polyurethane-bonded metal and plastic joints)

IT Dendritic polymers
 RL: TEM (Technical or engineered material use); USES (Uses)
 (polyamide-polyamines, adhesion promoters; effect of
 hyperbranched
 polymers and dendrimers on interfacial adhesion of epoxy resin-
 and
 polyurethane-bonded metal and plastic joints)

IT Polyamides, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (polyamine-, dendrimers, adhesion promoters; effect of
 hyperbranched
 polymers and dendrimers on interfacial adhesion of epoxy resin-
 and
 polyurethane-bonded metal and plastic joints)

IT Polyamides, uses
 RL: MOA (Modifier or additive use); TEM (Technical or engineered
 material
 use); USES (Uses)
 (polyester-, hyperbranched, adhesion promoter; effect of
 hyperbranched
 polymers and dendrimers on interfacial adhesion of epoxy resin-
 and
 polyurethane-bonded metal and plastic joints)

IT Polyimides, uses
 RL: NUU (Other use, unclassified); USES (Uses)
 (polyether-, adherend; effect of hyperbranched polymers and
 dendrimers
 on interfacial adhesion of epoxy resin- and polyurethane-bonded
 metal
 and plastic joints)

IT Polyethers, uses
 RL: NUU (Other use, unclassified); USES (Uses)

(polyimide-, adherend; effect of hyperbranched polymers and dendrimers on interfacial adhesion of epoxy resin- and polyurethane-bonded metal and plastic joints)

IT Polyurethanes, uses
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (polyoxyalkylene-, adhesive; effect of hyperbranched polymers and dendrimers on interfacial adhesion of epoxy resin- and polyurethane-bonded metal and plastic joints)

IT 12616-84-1 61128-24-3, Ultem 1000
 RL: NUU (Other use, unclassified); USES (Uses)
 (adherend; effect of hyperbranched polymers and dendrimers on interfacial adhesion of epoxy resin- and polyurethane-bonded metal and plastic joints)

IT 153891-46-4, PAMAM-G 3
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (adhesion promoter; effect of hyperbranched polymers and dendrimers on interfacial adhesion of epoxy resin- and polyurethane-bonded metal and plastic joints)

IT 101-68-8D, MDI, polymers with polyether polyols 26471-62-5D, TDI, polymers with polyether polyols 115597-79-0
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (adhesive; effect of hyperbranched polymers and dendrimers on interfacial adhesion of epoxy resin- and polyurethane-bonded metal and plastic joints)

IT 61128-46-9
 RL: NUU (Other use, unclassified); USES (Uses)
 (assumed monomers, adherend; effect of hyperbranched polymers and dendrimers on interfacial adhesion of epoxy resin- and polyurethane-bonded metal and plastic joints)

IT 26937-01-9, PAMAM 163442-67-9, Starburst Generation 4 367510-07-4, Hybrane HA 1300
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (dendritic, adhesion promoter; effect of hyperbranched polymers and dendrimers on interfacial adhesion of epoxy resin- and polyurethane-bonded metal and plastic joints)

RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD

(1) Anon; WO 9900540 IL
 (2) Anon; US 4558120 1985 CAPLUS
 (3) Anon; US 4631337 1986 CAPLUS
 (4) Anon; US 4737550 1988 CAPLUS
 (5) Anon; US 5760142 1998 CAPLUS
 (6) Anon; Eur Pat Appl EP 66 366 1982

- (7) Anon; Eur Pat Appl EP 802 215 1997
 (8) Anon; Israel Patent Appl 125,565 1998
 (9) Anon; US Pat Appl 09/295,320 1999
 (10) Anon; Unpublished results
 (11) Dodiuk, H; Int J Adhes Adhes submitted
 (12) Hyperbane Dsm; New business development 1999, P99
 (13) Matthews, O; Prog Polym Sci 1998, V23(1), P1 CAPLUS
 (14) Moshinsky, L; Epoxy Resins and Hardeners-Structure, Properties, Chemistry and Topology of Curing 1995, P370
 (15) Moshinsky, L; Meeting of the Adhesion Society 2000
 (16) Newcome, G; Dendritic Molecules:Concepts, Syntheses and Perspectives 1996, V261
 (17) Tomalia, D; Angew Chem 1990, V102(2), P119 CAPLUS
 (18) Tomalia, D; Macromolecules 1987, V20(5), P1164 CAPLUS
 (19) Tomalia, D; Polymer 1985, V17(1), P117 CAPLUS

REFERENCE 2

AN 135:320281 CA <<LOGINID:20081021>>
 TI Method for inhibiting the plugging of conduits by gas hydrates
 IN Klomp, Ulfert Cornelis
 PA Shell Internationale Research Maatschappij BV, Neth.
 SO PCT Int. Appl., 31 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM C10L003-00
 CC 51-2 (Fossil Fuels, Derivatives, and Related Products)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001077270	A1	20011018	WO 2001-EP4075	20010406
CN,	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH,				
HR,	CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,				
LT,	HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,				
RU,	LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,				
VN,	SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,				
	YU, ZA, ZW				
CY,	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH,				
BF,	DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,				
	BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2404784	A1	20011018	CA 2001-2404784	20010406	
EP 1268716	A1	20030102	EP 2001-929528	20010406	
EP 1268716	B1	20071107			
PT,	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,				
	IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001009886	A	20030603	BR 2001-9886	20010406	
AU 775058	B2	20040715	AU 2001-56271	20010406	
RU 2252929	C2	20050527	RU 2002-129877	20010406	
AT 377642	T	20071115	AT 2001-929528	20010406	

NO	2002004800	A	20021112	NO	2002-4800	20021004
US	20030057158	A1	20030327	US	2002-240816	20021004
US	6905605	B2	20050614			

PRAI EP 2000-302949 20000407
 WO 2001-EP4075 20010406

AB A method for inhibiting the plugging of a conduit contg. a flowable mixt. comprising at least an amt. of hydrocarbons capable of forming hydrates in the presence of water, and an amt. of water, which method comprises adding to the mixt. an amt. of a dendrimeric compd. effective to inhibit formation of hydrates at conduit temps. and pressures, and flowing the mixt. contg. the dendrimeric compd. and any hydrates through the conduit. Preferably, a hyperbranched polyester amide is used as hydrate formation inhibitor compd.

ST gas hydrate formation inhibitor hyperbranched polyester amide
 IT Hydrocarbons, processes
 RL: PEP (Physical, engineering or chemical process); PROC (Process) (method for inhibiting the plugging of conduits by gas hydrates)

IT Hydrates
 RL: REM (Removal or disposal); PROC (Process) (method for inhibiting the plugging of conduits by gas hydrates)

IT 362603-93-8, Hybrane S 1200
 RL: MOA (Modifier or additive use); USES (Uses) (Hybrane S 1200; method for inhibiting the plugging of conduits by gas hydrates)

IT 367510-07-4, Hybrane HA 1300 367510-09-6, Hybrane HA 1690
 367510-10-9, Hybrane HA 1550 367510-11-0, Hybrane HA 5890 367510-12-1, Hybrane HAm 1290 367510-13-2, Hybrane HAm 2490 367510-14-3, Hybrane HAm 67.5V1625 367510-15-4, Hybrane H/D Am 90-1300 367510-17-6, Hybrane HAp 1390 367513-08-4, Hybrane D 1400 367513-09-5, Hybrane D 2000 367513-12-0, Hybrane D 2800 367513-14-2, Hybrane DDC 20010 367513-39-1, Hybrane D/H 10-2000

RL: MOA (Modifier or additive use); USES (Uses) (method for inhibiting the plugging of conduits by gas hydrates)

IT 85-42-7D, Hexahydrophthalic anhydride, optionally substituted with one or more alkyl or alkenyl substituents 85-43-8D, Tetrahydrophthalic anhydride, optionally substituted with one or more alkyl or alkenyl substituents 85-44-9D, Phthalic anhydride, optionally substituted with one or more alkyl or alkenyl substituents 108-30-5D, Succinic anhydride, optionally substituted with one or more alkyl or alkenyl substituents 108-55-4D, Glutaric anhydride, optionally substituted with one or more alkyl or alkenyl substituents 110-97-4, Diisopropanolamine 31049-18-0D, Norbornene-2,3-dicarboxylic anhydride, optionally substituted

with one
 or more alkyl or alkenyl substituents
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (method for inhibiting the plugging of conduits by gas hydrates)
 RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 (1) Dsm Nv; WO 9314147 A 1993 CAPLUS
 (2) Froehling, P; US 5998565 A 1999 CAPLUS
 (3) Klomp, U; US 5879561 A 1999 CAPLUS
 (4) Oelfke, R; US 5900516 A 1999 CAPLUS
 (5) Shell Canada Ltd; WO 9913197 A 1999 CAPLUS

L2 ANSWER 35 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 362603-93-8 REGISTRY
 ED Entered STN: 17 Oct 2001
 CN 2,5-Furandione, dihydro-, polymer with 1,1'-iminobis[2-propanol]
 (CA

INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 2-Propanol, 1,1'-iminobis-, polymer with dihydro-2,5-furandione
 (9CI)
 OTHER NAMES:
 CN Diisopropanolamine-succinic anhydride copolymer
 CN Diisopropanolamine-succinic anhydride copolymer
 CN ***Hybrane 1200***
 CN ***Hybrane S 1***
 CN ***Hybrane S 1200***
 CN Succinic anhydride-diisopropanolamine copolymer
 CN Topbrane S 1
 DR 862377-89-7
 MF (C6 H15 N O2 . C4 H4 O3)x
 CI PMS, COM
 PCT Polyamine, Polyester, Polyester formed
 SR CAS Client Services
 LC STN Files: CA, CAPLUS, CASREACT, CHEMLIST, TOXCENTER, USPAT2,
 USPATFULL

Other Sources: TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)
 DT.CA Caplus document type: Journal; Patent
 RL.P Roles from patents: PREP (Preparation); PRP (Properties); RACT
 (Reactant or reagent); USES (Uses)
 RLD.P Roles for non-specific derivatives from patents: BIOL
 (Biological
 study); PREP (Preparation); PRP (Properties); USES (Uses)
 RL.NP Roles from non-patents: BIOL (Biological study); PREP
 (Preparation);
 PROC (Process); PRP (Properties); USES (Uses)
 RLD.NP Roles for non-specific derivatives from non-patents: PRP
 (Properties);
 USES (Uses)

Ring System Data

Elemental Analysis	Elemental Sequence	Size of the Rings	Ring System Formula	Ring Identifier	RID Occurrence
EA	ES	SZ	RF	RID	Count
C4O	OC4	15	IC4O	16.138.1	1 in CM
					12

CM 1

CRN 110-97-4
CMF C6 H15 N O2

/ Structure 29 in file .gra /

CM 2

CRN 108-30-5
CMF C4 H4 O3

/ Structure 30 in file .gra /

27 REFERENCES IN FILE CA (1907 TO DATE)
8 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
27 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

AN 149:106858 CA <<LOGINID:20081021>>
TI Process for the catalytic halogenation of a hydroxylated organic compound
IN Ten Kate, Antoon; Mayer, Mateo Jozef Jacques; Van Strien, Cornelis Johannes Govardus; Kuzmanovic, Boris; Dirix, Carolina Anna Maria Christina
PA Akzo Nobel N.V., Neth.
SO PCT Int. Appl., 23pp.
CODEN: PIXXD2
DT Patent
LA English
CC 45-4 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
Section cross-reference(s): 23

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2008074733	A1	20080626	WO 2007-EP63944	20071214
CA,	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,				
	CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES,				
FI,	GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE,				
KG,	KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,				
ME,	MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH,				
PL,	PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM,				
TN,	TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,				
IE,	IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR,				
BF,	BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG,				
BW,	GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,				

AZ, BY, KG, KZ, MD, RU, TJ, TM

PRAI EP 2006-126548 20061219
US 2007-880342P 20070111

AB The present invention relates to a process for the catalytic halogenation of an org. compd. comprising at least one aliph. hydroxyl group which comprises the step of contacting the org. compd. comprising at least one aliph. hydroxyl group with a hydrogen halide in the presence of a catalyst which is an org. polymer which comprises at least one carbonyl group, has a vapor pressure at the reaction temp. of less than 1 mbar, has a wt. av. mol. wt. Mw of 500 g/mol or more, and is sol. in the reaction mixt. at the reaction temp.

ST carbonyl polymer dendritic halogenation catalyst hydrogen hydride

IT Dendrimers
RL: CAT (Catalyst use); USES (Uses)
(hyperbranched polymers; process for catalytic halogenation of a hydroxylated org. compd.)

IT Flocculants
(org. flocculant catalyst; process for catalytic halogenation of a hydroxylated org. compd.)

IT Polyesters, uses
RL: CAT (Catalyst use); USES (Uses)
(polyamide-; process for catalytic halogenation of a hydroxylated org. compd.)

IT Polyamides, uses
RL: CAT (Catalyst use); USES (Uses)
(polyester-; process for catalytic halogenation of a hydroxylated org. compd.)

IT Chlorination catalysts
Halogenation catalysts
(process for catalytic halogenation of a hydroxylated org. compd.)

IT Dendrimers
RL: CAT (Catalyst use); USES (Uses)
(process for catalytic halogenation of a hydroxylated org. compd.)

IT Hydrogen halides
RL: RCT (Reactant); RACT (Reactant or reagent)
(process for catalytic halogenation of a hydroxylated org. compd.)

IT 9003-01-4, Polyacrylic acid 9003-05-8, Polyacrylamide 362603-93-8,
Hybrane S 1200 367510-09-6, Hybrane HA 1690
RL: CAT (Catalyst use); USES (Uses)
(process for catalytic halogenation of a hydroxylated org. compd.)

IT 96-23-1P, 1,3-Dichloropropan-2-ol 96-24-2P 106-89-8P,
Epichlorohydrin, preparation 616-23-9P, 2,3-Dichloropropan-1-ol 3132-64-7P,
Epibromohydrin 185805-20-3P

RL: IMF (Industrial manufacture); PREP (Preparation)
 (process for catalytic halogenation of a hydroxylated org.
 compd.)
 IT 56-81-5, Glycerol, reactions 57-55-6, 1,2-Propanediol, reactions
 64-17-5, Ethanol, reactions 71-23-8, Propanol, reactions 71-36-
 3,
 Butanol, reactions 71-41-0, Pentanol, reactions 107-21-1,
 1,2-Ethanedial, reactions 107-88-0, 1,3-Butanediol 110-63-4,
 1,4-Butanediol, reactions 111-27-3, Hexanol, reactions 111-29-
 5,
 1,5-Pentanediol 111-70-6, 1-Heptanol 111-87-5, Octanol,
 reactions
 112-30-1, Decanol 112-42-5, Undecanol 112-47-0, 1,10-Decanediol
 112-53-8, Dodecanol 123-51-3, Isoamyl alcohol 143-08-8, Nonanol
 504-63-2, 1,3-Propanediol 542-59-6, Ethylene glycol monoacetate
 629-11-8, 1,6-Hexanediol 629-30-1, 1,7-Heptanediol 629-41-4,
 1,8-Octanediol 765-04-8, 1,11-Undecanediol 1331-12-0, Propylene
 glycol
 monoacetate 2568-33-4, Isopentyl diol 3068-00-6, 1,2,4-
 Butanetriol
 3937-56-2, 1,9-Nonanediol 5343-92-0, 1,2-Pentanediol 5675-51-4,
 1,12-Dodecanediol 6920-22-5, 1,2-Hexanediol 7647-01-0, Hydrogen
 chloride, reactions 10035-10-6, Hydrogen bromide, reactions
 21531-91-9
 , 1,3-Hexanediol 25395-31-7, Glycerin diacetate 26446-35-5,
 Glycerin
 monoacetate 31566-31-1, Glycerin monostearate
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (process for catalytic halogenation of a hydroxylated org.

compd.)
 RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
 (1) Bouillaud, A; AUSTRALIAN JOURNAL OF CHEMISTRY 1994, V47(11), P2123
 CAPLUS
 (2) Dow Global Technologies; WO 2006020234 A 2006 CAPLUS

REFERENCE 2

AN 148:79500 CA <<LOGINID::20081021>>
 TI Polyesteramides and compositions comprising them
 IN Van Benthem, Rudolfus Antonius Theodorus Maria; Friederichs, Joseph
 Petronella; Molhoek, Leendert Jan
 PA Dsm Ip Assets B.V., Neth.
 SO PCT Int. Appl., 28pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 CC 35-5 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 42
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007147560	A1	20071227	WO 2007-EP5386	20070619
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,				
CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES,				
FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE,				
KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,				
ME,				

PL, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH,
 TN, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM,
 TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,
 IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG,
 BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM
 EP 1873188 A1 20080102 EP 2006-12496 20060619
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,
 IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR,
 AL, BA, HR, MK, YU
 PRAI EP 2006-12496 20060619
 AB Polyesteramide based on .gtoreq.1 anhydride A1, b. optionally
 .gtoreq.1 anhydride A2, c. .gtoreq.1 di-alkanolamine, where A1 is present in
 an amt. of 50-100, and anhydride A2 is 0-50% based on the total amt. of
 anhydride and whereby A1 is chosen from the list succinic anhydride, Me
 succinic anhydride, maleic anhydride or glutaric anhydride or a combination
 of any of them and A2 is chosen from the list hexahydro phthalic
 anhydride, phthalic anhydride or methyl-hexahydro phthalic anhydride or a
 combination of any of them. Thus, a polyesteramide was prep'd. from succinic
 anhydride, hexahydrophthalic anhydride and diisopropanol amine.
 ST polyesteramide compn coating succinic anhydride hexahydrophthalic
 anhydride diisopropanol amine
 IT Fatty acids, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (branched; polyesteramides and compns. comprising them)
 IT Polyesters, preparation
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical
 or engineered material use); PREP (Preparation); USES (Uses)
 (polyamide-; polyesteramides and compns. comprising them)
 IT Polyamides, preparation
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical
 or engineered material use); PREP (Preparation); USES (Uses)
 (polyester-; polyesteramides and compns. comprising them)
 IT Binders
 Coating materials
 (polyesteramides and compns. comprising them)
 IT 149-57-SDP, 2-Ethylhexanoic acid, reaction product with succinic
 anhydride-diisopropanolamine copolymer 362603-93-8DP, Succinic
 anhydride-diisopropanolamine copolymer, reaction product with
 2-ethylhexanoic acid 362603-93-8P, Succinic anhydride-
 diisopropanolamine

copolymer 362603-95-0P, Succinic anhydride-hexahydrophthalic anhydride-diisopropanol amine copolymer
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (polyesteramides and compns. comprising them)
 IT 57-11-4D, Stearic acid, polyesteramide 64-19-7D, Acetic acid, polyesteramide 65-85-0D, Benzoic acid, polyesteramide 85-42-7D, Hexahydrophthalic anhydride, polyesteramide 85-44-9D, Phthalic anhydride, polyesteramide 107-92-6D, Butyric acid, polyesteramide 108-30-5D, Succinic anhydride, polyesteramide, properties 108-31-6D, Maleic anhydride, polyesteramide, properties 108-55-4D, Glutaric anhydride, polyesteramide 110-97-4D, Diisopropanol amine, polyesteramide 111-42-2D, Diethanol amine, polyesteramide 143-07-7D, Lauric acid, polyesteramide 4100-80-5D, Methylsuccinic anhydride, polyesteramide 25550-51-0D, Methylhexahydrophthalic anhydride, polyesteramide
 RL: PRP (Properties)
 (polyesteramides and compns. comprising them)
 IT 57-11-4, Stearic acid, reactions 64-19-7, Acetic acid, reactions 65-85-0, Benzoic acid, reactions 107-92-6, Butyric acid, reactions 143-07-7, Lauric acid, reactions 149-57-5, 2-Ethylhexanoic acid
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (polyesteramides and compns. comprising them)
 RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 (1) Dsm Ip Assets Bv; WO 03104327 A 2003 CAPLUS
 (2) Honel, H; US 3433754 A 1969
 (3) Jo; WO 0248459 A2 2002 CAPLUS
 (4) Rockwool Int; EP 1170265 A 2002 CAPLUS

REFERENCE 3

AN 148:79499 CA <<LOGINID::20081021>>
 TI Water borne coating composition containing a polyesteramide
 IN Van Engelen, Antonius Hendrikus Gerardus; Van Boxtel, Marysia
 Cornelia
 Wilhelmina
 PA AKZO Nobel Coatings International B.V., Neth.
 SO PCT Int. Appl., 24pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 CC 35-5 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 42
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007147784	A1	20071227	WO 2007-EP55941	20070615

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,

MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL,
PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,
IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR,
BE, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG,
BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM

PRAI EP 2006-115672 20060619

AB Disclosed is a compn. contg. (i) 1 - 50 wt.% of a water-sol.,
branched polyesteramide, (ii) 1 - 50 wt.% of a solvent selected from the
group of alcs., ethers, and ether alcs. having a b.p. 130-250.degree.C, and
(iii) 0 - 98 wt.% of water, and its use as an additive to water borne base
coat compns. to reduce or eliminate problems of underspray/overspray.
Thus, a polyesteramide was prepd. from diisopropanol amine and succinic
anhydride.
ST coating compn polyesteramide diisopropanol amine succinic anhydride
IT Alcohols, uses
RL: NUU (Other use, unclassified); USES (Uses)
(ether; water borne coating compn. contg. a polyesteramide)
IT Polyesters, preparation
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical
or engineered material use); PREP (Preparation); USES (Uses)
(polyamide-, branched; water borne coating compn. contg. a
polyesteramide)
IT Polyamides, preparation
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical
or engineered material use); PREP (Preparation); USES (Uses)
(polyester-, branched; water borne coating compn. contg. a
polyesteramide)
IT Alcohols, uses
Ethers, uses
RL: NUU (Other use, unclassified); USES (Uses)
(water borne coating compn. contg. a polyesteramide)
IT Coating materials
(waterborne coating compn. contg. a polyesteramide)
IT 362603-93-8P, Diisopropanolamine-succinic anhydride copolymer
362603-95-0P
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical
or engineered material use); PREP (Preparation); USES (Uses)
(waterborne coating compn. contg. a polyesteramide)
IT 100-51-6, Benzyl alcohol, uses 104-76-7, 2-Ethylhexanol 108-11-
2,
4-Methyl-2-pentanol 111-76-2, Ethylene glycol monobutyl ether
111-90-0

, Diethylene glycol monoethyl ether 112-34-5, Diethylene glycol monobutyl ether 29387-86-8, Propylene glycol monobutyl ether 30025-38-8, Dipropylene glycol monoethyl ether 34590-94-8, Dipropylene glycol monomethyl ether 75899-69-3, Tripropylene glycol monoethyl ether 111109-77-4, Dipropylene glycol dimethyl ether
 RL: NUU (Other use, unclassified); USES (Uses)
 (waterborne coating compn. contg. a polyesteramide)
 IT 85-42-7D, Hexahydrophthalic anhydride, polyesteramide 85-44-9D, Phthalic anhydride, polyesteramide 108-30-5D, Succinic anhydride, polyesteramide, uses 108-31-6D, Maleic anhydride, polyesteramide, uses 108-55-4D, Glutaric anhydride, polyesteramide 110-97-4D, Diisopropanolamine, polyesteramide 111-42-2D, Diethanolamine, polyesteramide 4100-80-5D, Methylsuccinic anhydride, polyesteramide 25550-51-0D, Methylhexahydrophthalic anhydride, polyesteramide 875251-18-6D, polyesteramide
 RL: PRP (Properties); TEM (Technical or engineered material use);
 USES
 (Uses)
 (waterborne coating compn. contg. a polyesteramide)
 RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
 (1) Albers, K; US 3709858 A 1973 CAPLUS

REFERENCE 4

AN 147:487949 CA <<LOGINID:20081021>>
 TI Deicer and/or anti-icing agent
 IN Seiler, Matthias; Bernhardt, Stefan
 PA Degussa G.m.b.H., Germany
 SO Ger., 14pp.
 CODEN: GWXXAW

DT Patent
 LA German
 CC 45-5 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102006040122	B3	20071031	DE 2006-102006040122	20060826
WO 2008025589	A1	20080306	WO 2007-EP56895	20070706

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR,

BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG,
 BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM
 PRAI DE 2006-102006040122 20060826
 AB The invention concerns a snow and ice removal or an anti-icing
 agent
 contg. 35-95% .gtoreq.1 glycol, 0.001-5.0% .gtoreq.1 dendritic
 polymer,
 0.01-5.0% .gtoreq.1 thickening agent other than the dendritic
 polymer,
 and, optionally, water.
 ST glycol dendritic polymer thickener deicer antiicing agent
 IT Thickening agents
 (deicers and anti-icing agents based on glycols, dendritic
 polymer
 thickeners, and other thickeners)
 IT Dendrimers
 Fluoropolymers, uses
 Polyoxalkylenes, uses
 RL: MOA (Modifier or additive use); TEM (Technical or engineered
 material
 use); USES (Uses)
 (deicers and anti-icing agents based on glycols, dendritic
 polymer
 thickeners, and other thickeners)
 IT Glycols, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (deicers and anti-icing agents based on glycols, dendritic
 polymer
 thickeners, and other thickeners)
 IT Polyesters, uses
 Polyethers, uses
 RL: MOA (Modifier or additive use); TEM (Technical or engineered
 material
 use); USES (Uses)
 (dendrimers; deicers and anti-icing agents based on glycols,
 dendritic
 polymer thickeners, and other thickeners)
 IT Polyamides, uses
 Polyimides, uses
 Polysiloxanes, uses
 Polyureas
 Polyurethanes, uses
 RL: MOA (Modifier or additive use); TEM (Technical or engineered
 material
 use); USES (Uses)
 (dendritic; deicers and anti-icing agents based on glycols,
 dendritic
 polymer thickeners, and other thickeners)
 IT Alcohols, uses
 RL: MOA (Modifier or additive use); TEM (Technical or engineered
 material
 use); USES (Uses)
 (fatty, ethoxylated, other thickener; deicers and anti-icing
 agents
 based on glycols, dendritic polymer thickeners, and other
 thickeners)

IT Polyamines
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (polyamide-, dendrimers; deicers and anti-icing agents based on glycols, dendritic polymer thickeners, and other thickeners)

IT Polyesters, uses
 Polyethers, uses
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (polyamide-, dendritic; deicers and anti-icing agents based on glycols, dendritic polymer thickeners, and other thickeners)

IT Dendrimers
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (polyamide-polyamines; deicers and anti-icing agents based on glycols, dendritic polymer thickeners, and other thickeners)

IT Polyamides, uses
 Polysulfones, uses
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (polyamine-, dendrimers; deicers and anti-icing agents based on glycols, dendritic polymer thickeners, and other thickeners)

IT Polyimides, uses
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (polyamine-, dendritic; deicers and anti-icing agents based on glycols, dendritic polymer thickeners, and other thickeners)

IT Dendrimers
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (polyamine-polysulfones; deicers and anti-icing agents based on glycols, dendritic polymer thickeners, and other thickeners)

IT Polyamides, uses
 Polyimides, uses
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (polyester-, dendritic; deicers and anti-icing agents based on glycols, dendritic polymer thickeners, and other thickeners)

IT Dendrimers
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (polyesters; deicers and anti-icing agents based on glycols, dendritic polymer thickeners, and other thickeners)

IT Polyamides, uses
 Polysiloxanes, uses
 Polysulfones, uses
 RL: MOA (Modifier or additive use); TEM (Technical or engineered

material
 use); USES (Uses)
 (polyether-, dendritic; deicers and anti-icing agents based on
 glycols,
 dendritic polymer thickeners, and other thickeners)

IT Dendrimers
 RL: MOA (Modifier or additive use); TEM (Technical or engineered
 material
 use); USES (Uses)
 (polyethers; deicers and anti-icing agents based on glycols,
 dendritic
 polymer thickeners, and other thickeners)

IT Polyamines
 Polyesters, uses
 RL: MOA (Modifier or additive use); TEM (Technical or engineered
 material
 use); USES (Uses)
 (polyimide-, dendritic; deicers and anti-icing agents based on
 glycols,
 dendritic polymer thickeners, and other thickeners)

IT Polyamines
 RL: MOA (Modifier or additive use); TEM (Technical or engineered
 material
 use); USES (Uses)
 (polysulfone-, dendrimers; deicers and anti-icing agents based
 on
 glycols, dendritic polymer thickeners, and other thickeners)

IT Polyethers, uses
 RL: MOA (Modifier or additive use); TEM (Technical or engineered
 material
 use); USES (Uses)
 (polysulfone-, dendritic; deicers and anti-icing agents based on
 glycols, dendritic polymer thickeners, and other thickeners)

IT Polyurethanes, uses
 RL: MOA (Modifier or additive use); TEM (Technical or engineered
 material
 use); USES (Uses)
 (polyurea-, dendritic; deicers and anti-icing agents based on
 glycols,
 dendritic polymer thickeners, and other thickeners)

IT Polyureas
 RL: MOA (Modifier or additive use); TEM (Technical or engineered
 material
 use); USES (Uses)
 (polyurethane-, dendritic; deicers and anti-icing agents based
 on
 glycols, dendritic polymer thickeners, and other thickeners)

IT Ice
 (removal, agents; deicers and anti-icing agents based on
 glycols,
 dendritic polymer thickeners, and other thickeners)

IT Polyethers, uses
 RL: MOA (Modifier or additive use); TEM (Technical or engineered
 material
 use); USES (Uses)
 (siloxane-, dendritic; deicers and anti-icing agents based on
 glycols,
 dendritic polymer thickeners, and other thickeners)

IT 912297-06-4, Boltorn P 500 954113-40-7, Intracel FA 12/18/5
 RL: MOA (Modifier or additive use); TEM (Technical or engineered

material
 use); USES (Uses)
 (deicers and anti-icing agents based on glycols, dendritic
 polymer
 thickeners, and other thickeners)
 IT 57-55-6, Propylene glycol, uses 107-21-1, Ethylene glycol, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (deicers and anti-icing agents based on glycols, dendritic
 polymer
 thickeners, and other thickeners)
 IT 79-10-7D, Acrylic acid, esters, polymers 79-41-4D, Methacrylic
 acid,
 esters, polymers 9002-98-6 9003-01-4, Polyacrylic acid 24937-
 79-9,
 Polyvinylidene fluoride 25618-55-7, Polyglycerol 362603-93-8,
 Hybrane
 S1200
 RL: MOA (Modifier or additive use); TEM (Technical or engineered
 material
 use); USES (Uses)
 (dendritic; deicers and anti-icing agents based on glycols,
 dendritic
 polymer thickeners, and other thickeners)
 IT 9002-89-5, Polyvinyl alcohol 9003-39-8, Polyvinylpyrrolidone
 9007-16-3
 , Carbopol 934 11138-66-2, Xanthan gum 25322-68-3, Polyethylene
 glycol
 RL: MOA (Modifier or additive use); TEM (Technical or engineered
 material
 use); USES (Uses)
 (other thickener; deicers and anti-icing agents based on
 glycols,
 dendritic polymer thickeners, and other thickeners)
 IT 9004-34-6D, Cellulose, ethers
 RL: TEM (Technical or engineered material use); USES (Uses)
 (other thickener; deicers and anti-icing agents based on
 glycols,
 dendritic polymer thickeners, and other thickeners)

REFERENCE 5

AN 147:323845 CA <<LOGINID:20081021>>
 TI Heterocyclic substituted condensation polymers for cosmetics
 IN Beumer, Raphael; Derks, Franciscus; Mendrok-Edinger, Christine
 PA DSM IP Assets B.V., Neth.
 SO PCT Int. Appl., 75pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 CC 37-3 (Plastics Manufacture and Processing)
 Section cross-reference(s): 62

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2007098889	A1	20070907	WO 2007-EP1576	20070223
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA,			
CH,	CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB,			
GD,	GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM,			

KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG,
 MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT,
 RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR,
 TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 IE, RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,
 GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
 BY, KG, KZ, MD, RU, TJ, TM

PRAI EP 2006-4345 20060303

AB The invention relates to optionally quaternized or protonated
 condensation
 polymers having at least one heterocyclic end-group connected to
 the
 polymer backbone through a unit derived from an alkylamide, the
 connection
 comprising an optionally substituted ethylene group and to the use
 thereof
 in body care products and household products.
 ST heterocyclic substituted condensation polymer cosmetic
 IT Soaps
 RL: TEM (Technical or engineered material use); USES (Uses)
 (bars; heterocyclic substituted condensation polymers for
 cosmetics)
 IT Polymerization
 (condensation; heterocyclic substituted condensation polymers
 for
 cosmetics)
 IT Antiperspirants
 Bath preparations
 Cosmetics and personal care products
 Dentifrices
 Deodorants
 Hair preparations
 Household furnishings
 Perfumes
 Sunscreens
 (heterocyclic substituted condensation polymers for cosmetics)
 IT Soaps
 RL: TEM (Technical or engineered material use); USES (Uses)
 (liq.; heterocyclic substituted condensation polymers for
 cosmetics)
 IT Polyesters, preparation
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL
 (Biological
 study); PREP (Preparation); USES (Uses)
 (polyamide-, hyperbranched; heterocyclic substituted
 condensation
 polymers for cosmetics)
 IT Polyamides, preparation
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL
 (Biological

study); PREP (Preparation); USES (Uses)
 (polyester-, hyperbranched; heterocyclic substituted
 condensation polymers for cosmetics)

IT 110-91-8DP, Morpholine, reaction products with
 diisopropanolamine-hexahydrophthalic
 anhydride-polyethyleneoxide-monomethylethercopolymer and imidazole
 hydrochloride 288-32-4DP, Imidazole, reaction products with
 bis-(N,N-di-Me aminopropyl) amine-diisopropanolamine-succinic
 anhydride copolymer 288-32-4DP, Imidazole, reaction products with
 diisopropanolamine-succinic anhydride copolymer, di-Me sulfate
 salts 1467-16-9DP, Imidazole hydrochloride, reaction products with
 diisopropanolamine-hexahydrophthalic
 anhydride-polyethyleneoxide-monomethylether copolymer and
 morpholine 37306-44-8DP, Triazole, reaction products with diethanolamine-
 succinic anhydride copolymer 231630-23-2DP, Diethanolamine-succinic
 anhydride copolymer, reaction products with triazole 362603-93-8DP,
 Diisopropanolamine-succinic anhydride copolymer, reaction products
 with imidazole, di-Me sulfate salts 934233-69-9DP, reaction products
 with morpholine and imidazole hydrochloride 947704-30-5P,
 Diisopropanolamine-dodecyl succinic anhydride-hydantoin copolymer
 947704-31-6DP, reaction products with imidazole
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (heterocyclic substituted condensation polymers for cosmetics)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
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 (4) Montedison; GB 1458541 A 1976 CAPLUS

REFERENCE 6

AN 146:411566 CA <<LOGINID:20081021>>
 TI Ink-jet printing sheet and its manufacture by curtain coating
 IN Okita, Takeshi
 PA Daio Paper Corporation, Japan
 SO Jpn. Kokai Tokkyo Koho, 18pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and
 Other Reprographic Processes)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2007098705	A	20070419	JP 2005-289644	20051003
PRAI	JP 2005-289644		20051003		

AB The sheet has an ink receiving layer on .gtoreq.1 side contg.
 tackiness-reducing agent and .gtoreq.2 kinds of pigments having
 different

particle sizes between 0.9-3.0 μm , formed by curtain coating.

The sheet has smooth surface without waving, anti-cracking property, and dimensional stability.

ST ink jet printing sheet curtain coating; tackiness reducing agent pigment

IT ink receiving layer

IT Coating process (curtain; ink-jet printing sheet contg. tackiness reducing agent and pigments)

IT Clays, uses

RL: TEM (Technical or engineered material use); USES (Uses) (ink-jet printing sheet contg. tackiness reducing agent and pigments)

IT Polyesters, uses

RL: TEM (Technical or engineered material use); USES (Uses) (polyamide-; ink-jet printing sheet contg. tackiness reducing agent and pigments)

IT Polyamides, uses

RL: TEM (Technical or engineered material use); USES (Uses) (polyester-; ink-jet printing sheet contg. tackiness reducing agent and pigments)

IT 362603-93-8, Diisopropanolamine-succinic anhydride copolymer

RL: TEM (Technical or engineered material use); USES (Uses) (Topbrane S 1, tackiness reducing agent; ink-jet printing sheet contg. tackiness reducing agent and pigments)

IT 471-34-1, TP CPC, uses 933050-08-9, HF 90

RL: TEM (Technical or engineered material use); USES (Uses) (ink-jet printing sheet contg. tackiness reducing agent and pigments)

IT 88477-65-0

RL: TEM (Technical or engineered material use); USES (Uses) (tackiness reducing agent; ink-jet printing sheet contg. tackiness reducing agent and pigments)

REFERENCE 7

- AN 145:173811 CA <<LOGINID:20081021>>
- TI Hyperbranched Polymers as Drug Carriers: Microencapsulation and Release Kinetics
- AU Suttiruengwong, S.; Rolker, J.; Smirnova, I.; Arlt, W.; Seiler, M.; Luederitz, L.; Perez de Diego, Y.; Jansens, P. J.
- CS Institut fuer Verfahrenstechnik, Fachgebiet Thermodynamik und Thermische Verfahrenstechnik, Technische Universitaet Berlin, Berlin, Germany
- SO Pharmaceutical Development and Technology (2006), 11(1), 55-70
- CODEN: PDTEFS; ISSN: 1083-7450
- PB Taylor & Francis, Inc.
- DT Journal
- LA English
- CC 63-5 (Pharmaceuticals)
- AB The aim of this work was to study the feasibility of hyperbranched polymers as drug carriers by employing different microparticle

formation
 methods and the influence of loading methods on release kinetics.

Com. available hyperbranched polyester (Perstorp) and 3 polyesteramides (DSM) were loaded with the pharmaceutical acetaminophen. The gas antisolvent pptn. (GAS), the coacervation, and the particles from gas satd. solns. (PGSS) are among conventional processes that were used to prep. microparticles of drug-loaded hyperbranched polyesters for the first time.

For prep. solid dispersions of drug-loaded hyperbranched polyesteramides the solvent method was applied. IR and DTA studies suggest that acetaminophen is partly dissolved in the polymer matrix and partly crystd. outside the polymer matrix. For acetaminophen-loaded polyesters prepd. by the GAS method, the presence of free drugs is predominant when compared to microparticles prepd. by the coacervation method. This event disappears for microparticles prepd. by the PGSS method. Moreover, the release of drug from drug-loaded Bol-GAS is biphasic, where the initial burst (48%), indicating the presence of unincorporated drugs, is followed by a slow-release phase, suggesting the diffusion of drug through polymer matrixes. The release of drugs from drug-loaded Bol-PGSS do not show this behavior since the drug is better dissolved or dispersed in polymer matrixes. In the case of drug-loaded polyesteramides, coevaporates prepd. from 3 hyperbranched structures (H1690, H1200, and H1500) using the solvent method result in different release kinetics. The hydrophobic characteristic of hyperbranched polyesteramide H1500 shows the biphasic release kinetic whereas the drug released from hydrophilic matrixes H1690 and H1200 exhibits fast release comparable to that of pure drug.

ST hyperbranched polyesteramide polymer microparticle acetaminophen microencapsulation dissoln

IT Solvents (antisolvents; microencapsulation and release kinetics of acetaminophen in hyperbranched polymers as drug carriers)

IT Precipitation (chemical) (gas antisolvent pptn.; microencapsulation and release kinetics of acetaminophen in hyperbranched polymers as drug carriers)

IT Coacervation
 Dissolution
 Encapsulation
 Particle shape
 Particle size
 Solvent effect
 Thermal analysis

(microencapsulation and release kinetics of acetaminophen in hyperbranched polymers as drug carriers)

IT Drug delivery systems
(microparticles; microencapsulation and release kinetics of acetaminophen in hyperbranched polymers as drug carriers)

IT Polyesters, biological studies
RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES
(Uses)
(polyamide-, hyperbranched; microencapsulation and release kinetics of acetaminophen in hyperbranched polymers as drug carriers)

IT Polyamides, biological studies
RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES
(Uses)
(polyester-, hyperbranched; microencapsulation and release kinetics of acetaminophen in hyperbranched polymers as drug carriers)

IT 362603-93-8, Hybrane 1200
RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES
(Uses)
(Hybrane 1200; microencapsulation and release kinetics of acetaminophen in hyperbranched polymers as drug carriers)

IT 222739-11-9, Hybrane 1500
RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES
(Uses)
(Hybrane 1500; microencapsulation and release kinetics of acetaminophen in hyperbranched polymers as drug carriers)

IT 103-90-2, Acetaminophen
RL: PRP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(microencapsulation and release kinetics of acetaminophen in hyperbranched polymers as drug carriers)

IT 366004-61-7, Boltorn H 3200 367510-09-6, Hybrane 1690
RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES
(Uses)
(microencapsulation and release kinetics of acetaminophen in hyperbranched polymers as drug carriers)

RE.CNT 74 THERE ARE 74 CITED REFERENCES AVAILABLE FOR THIS RECORD

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REFERENCE 8

AN 145:9818 CA <<LOGINID:20081021>>
 TI Water-thinned ink-jet ink compositions with improved anticurl properties
 IN Reinhardt, Erin M.; Foucher, Daniel A.
 PA USA
 SO U.S. Pat. Appl. Publ., 11 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 NCL 523160000
 CC 42-12 (Coatings, Inks, and Related Products)
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060111467	A1	20060525	US 2004-994784	20041122
US 2004-994784		20041122		

PI AB An ink-jet ink compn. suitable for high resoln. ink-jet printing comprises
 water; a colorant selected from dyes, pigments, or their mixts.;
 and an
 anticurl agent comprising a water-dispersible hyperbranched
 polymer. The
 hyperbranched polymer may be present in the ink in amts. lower than
 conventional anticurl agents and still effectively control curl
 without
 detrimentally affecting intercolor bleed control, water fastness,
 or
 drying. Addnl., the ink compns. do not exhibit increases in
 viscosity,
 the problem that occurs in ink compns. using conventional anticurl
 agents.
 Thus, an ink compn. was obtained by mixing 20%-yellow dye Y 104
 (15),
 Butyl Carbitol (11), 5%-aq. sulfolane (7), anticurl agent Hybrane
 SL 1410
 (6), calcium nitrate tetrahydrate (2), imidazole (1), EDTA (0.65),
 a
 Dowicil biocide (0.1), poly(ethylene oxide) having a mol. wt. of
 18,500
 (0.05), and deionized water (57.2%).
 ST hyperbranched polyester polyamide anticurl agent water thinned
 inkjet ink
 IT Dendritic polymers
 RL: MOA (Modifier or additive use); USES (Uses)
 (hyperbranched, anticurl agents; water-thinned ink-jet ink
 compns. with
 improved anticurl properties)
 IT Inks
 (jet-printing, water-thinned; water-thinned ink-jet ink compns.)

with improved anticurl properties)

IT Polyesters, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (polyamide-, hyperbranched, anticurl agents; water-thinned ink-jet ink compns. with improved anticurl properties)

IT Polyamides, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (polyester-, hyperbranched, anticurl agents; water-thinned ink-jet ink compns. with improved anticurl properties)

IT Dyes
 Ink-jet printing
 Pigments, nonbiological
 (water-thinned ink-jet ink compns. with improved anticurl properties)

IT 362603-93-8, Hybrane S 1200 362603-95-0, Hybrane HS 801700 437617-93-1
 , Hybrane SL 1410 887701-19-1, Hybrane SC 120050
 RL: MOA (Modifier or additive use); USES (Uses)
 (anticurl agent; water-thinned ink-jet ink compns. with improved anticurl properties)

IT 187674-70-0, Y 104 (Dye)
 RL: TEM (Technical or engineered material use); USES (Uses)
 (water-thinned ink-jet ink compns. with improved anticurl properties)

REFERENCE 9

AN 143:367777 CA <<LOGINID:20081021>>

TI Manufacture of modified lipophilic dendritic and hyperbranched polymers
 for water purification

IN Paleos, Constantinos; Tsiourvas, Dimitrios; Sideratou, Oreozili; Arkas, Michael

PA National Center for Scientific Research 'DEMOKRITOS', Greece

SO PCT Int. Appl., 31 pp.
 CODEN: PIXXD2

DT Patent

LA English

IC ICM C08G083-00
 ICS C02F001-00

CC 35-8 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 61

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004065459	A1	20040805	WO 2004-GR4	20040121
CH,	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA,				
GD,	CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB,				
LC,	GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ,				
	LK, LR, LS, LT, LU, MA, MD, MG, MK, MN, MW, MX, MZ				
	GR 1004458	B1	20040219	GR 2003-100020	20030121
	AU 2004205395	A1	20040805	AU 2004-205395	20040121
	CA 2513612	A1	20040805	CA 2004-2513612	20040121

EP 1594913 A1 20051116 EP 2004-703855 20040121
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,

PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
CN 1742038 A 20060301 CN 2004-80002525 20040121
US 20060157418 A1 20060720 US 2006-542665 20060113

PRAI GR 2003-100020 20030121
WO 2004-GR4 20040121

AB Lipophilic modified dendrimers and hyperbranched polymers that can encapsulate org. pollutants of a diversity of sizes and shapes were manuf. by modification of the functional groups present at the surface of the polymers. These functional polymers are characterized by the fact that their nanocavities do not have predetd. dimensions but their size and shape are affected by the size and shape of the pollutant they will the pollutants or they will adjusted to the size of these mols. For example, a title polymer prepd. by reacting diaminobutane poly (propyleneimine) dendrimer of the 4th generation (DAB 32) with octadecyl isocyanate was effective in reducing amt. of pyrene, phenanthrene and fluoranthene in H2O.

ST dendritic polymer lipophilic manuf water purifn; hyperbranched polymer lipophilic manuf water purifn; polypropyleneimine dendrimer octadecyl isocyanate adduct manuf water purifn

IT Dendritic polymers
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (hyperbranched, crosslinked; manuf. of modified lipophilic dendritic and hyperbranched polymers for water purifn.)

IT Water purification (manuf. of modified lipophilic dendritic and hyperbranched polymers for)

IT Dendritic polymers
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (reaction products, with octadecyl isocyanate; manuf. of modified lipophilic dendritic and hyperbranched polymers for water purifn.)

IT 822-06-ODP, 1,6-Hexane diisocyanate, reaction products with DAB 32 dendrimer
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (crosslinked; manuf. of modified lipophilic dendritic and hyperbranched polymers for water purifn.)

IT 112-96-9DP, n-Octadecyl isocyanate, reaction products with DAB 32

dendrimer 154487-85-IDP, reaction products with octadecyl isocyanate
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material)
 use); PREP (Preparation); USES (Uses)
 (dendritic; manuf. of modified lipophilic dendritic and hyperbranched
 polymers for water purifn.)
 IT 362603-93-8DP, Diisopropanolamine-Succinic anhydride copolymer, reaction
 products with octadecyl isocyanate
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material)
 use); PREP (Preparation); USES (Uses)
 (hyperbranched; manuf. of modified lipophilic dendritic and hyperbranched polymers for water purifn.)
 IT 85-01-8, Phenanthrene, processes 129-00-0, Pyrene, processes 206-44-0,
 Fluoranthene
 RL: POL (Pollutant); REM (Removal or disposal); OCCU (Occurrence);
 PROC
 (Process)
 (manuf. of modified lipophilic dendritic and hyperbranched polymers for
 water purifn.)
 RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
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REFERENCE 10

AN 143:348124 CA <<LOGINID::20081021>>
 TI Alkylated hyperbranched polymers as molecular nanosponges for the purification of water from polycyclic aromatic hydrocarbons
 AU Arkas, Michael; Eleades, Lazaros; Paleos, Constantinos M.; Tsiourvas, Dimitris
 CS Institute of Physical Chemistry, NCSR "Demokritos", Attiki, 15310, Greece
 SO Journal of Applied Polymer Science (2005), 97(6), 2299-2305
 CODEN: JAPNAB; ISSN: 0021-8995
 PB John Wiley & Sons, Inc.
 DT Journal
 LA English
 CC 38-3 (Plastics Fabrication and Uses)
 Section cross-reference(s): 61
 AB A series of hyperbranched polymers functionalized with long aliph. chains
 has been prepd. and characterized. The property of films prepd. from
 these polymers to encapsulate lipophilic polyarom. pollutants

dissolved in water has been established. The level of pyrene and fluoranthene remaining in water after treatment ranged from 1 to 30 ppb for most of the hyperbranched polymers, while for the relatively more water-sol. phenanthrene a final concn. of about 50 to 70 ppb could be attained. The inclusion formation const. detd. for the polycyclic aroms. were

2.0 .times. 10⁸-6.3 .times. 10⁶ M⁻¹ for pyrene, 1.2 .times. 10⁷-1.6 .times. 10⁶ M⁻¹ for fluoranthene, and 3.8 .times. 10⁶-4 .times. 10⁵ M⁻¹ for phenanthrene. The loading capacities depend on the nature of the polycyclic arom. compds. and the chem. structure of the parent hyperbranched polymers, ranging from 6 to 31 mg/g of polymer for fluoranthene, 15-54 mg/g for phenanthrene, and 6-35 mg/g for pyrene.

Regeneration of the absorbing films was achieved by their treatment with acetonitrile.

ST alkylated hyperbranched polymer nanosponge water purifn polycyclic arom hydrocarbon

IT Water purification (adsorption; alkylated hyperbranched polymers as mol. nanosponges for purifn. of water from polycyclic arom. hydrocarbons)

IT Adsorption (alkylated hyperbranched polymers as mol. nanosponges for purifn. of water from polycyclic arom. hydrocarbons)

IT Polycyclic compounds
RL: REM (Removal or disposal); PROC (Process)
(arom. hydrocarbons; alkylated hyperbranched polymers as mol. nanosponges for purifn. of water from polycyclic arom. hydrocarbons)

IT Polyamines
RL: PRP (Properties); TEM (Technical or engineered material use);

USES (Uses)
(dendrimers, polyethylene-, alkylated; alkylated hyperbranched polymers as mol. nanosponges for purifn. of water from polycyclic arom. hydrocarbons)

IT Dendritic polymers
RL: PRP (Properties); TEM (Technical or engineered material use);

USES (Uses)
(hyperbranched, alkylated; alkylated hyperbranched polymers as mol. nanosponges for purifn. of water from polycyclic arom. hydrocarbons)

IT Free energy
(of inclusion formation; of alkylated hyperbranched polymers as mol. nanosponges with polycyclic arom. hydrocarbons in relation to purifn. of water)

IT Polyesters, uses
RL: PRP (Properties); TEM (Technical or engineered material use);

USES
 (Uses)
 (polyamide-, dendrimers; alkylated hyperbranched polymers as
 mol. nanosponges for purifn. of water from polycyclic arom.
 hydrocarbons)
 IT Dendritic polymers
 RL: PRP (Properties); TEM (Technical or engineered material use);
 USES
 (Uses)
 (polyamide-polyesters; alkylated hyperbranched polymers as mol.
 nanosponges for purifn. of water from polycyclic arom.
 hydrocarbons)
 IT Dendritic polymers
 RL: PRP (Properties); TEM (Technical or engineered material use);
 USES
 (Uses)
 (polyamines, polyethylene-, alkylated; alkylated hyperbranched
 polymers as mol. nanosponges for purifn. of water from polycyclic arom.
 hydrocarbons)
 IT Aromatic hydrocarbons, processes
 RL: REM (Removal or disposal); PROC (Process)
 (polycyclic; alkylated hyperbranched polymers as mol.
 nanosponges for purifn. of water from polycyclic arom. hydrocarbons)
 IT Polyamides, uses
 RL: PRP (Properties); TEM (Technical or engineered material use);
 USES
 (Uses)
 (polyester-, dendrimers; alkylated hyperbranched polymers as
 mol. nanosponges for purifn. of water from polycyclic arom.
 hydrocarbons)
 IT 222739-11-9D, reaction products with dodecyl and octadecyl
 isocyanate
 RL: PRP (Properties); TEM (Technical or engineered material use);
 USES
 (Uses)
 (Hybrane H 1500; alkylated hyperbranched polymers as mol.
 nanosponges for purifn. of water from polycyclic arom. hydrocarbons)
 IT 243465-30-7D, Hybrane PS 2550, reaction products with dodecyl and
 octadecyl isocyanate
 RL: PRP (Properties); TEM (Technical or engineered material use);
 USES
 (Uses)
 (Hybrane PS 2550; alkylated hyperbranched polymers as mol.
 nanosponges for purifn. of water from polycyclic arom. hydrocarbons)
 IT 362603-93-8D, reaction products with dodecyl and octadecyl
 isocyanate
 RL: PRP (Properties); TEM (Technical or engineered material use);
 USES
 (Uses)
 (Hybrane S 1200; alkylated hyperbranched polymers as mol.
 nanosponges for purifn. of water from polycyclic arom. hydrocarbons)
 IT 437617-93-1D, Hybrane SL 1520, reaction products with dodecyl and
 octadecyl isocyanate

RL: PRP (Properties); TEM (Technical or engineered material use);

USES

(Uses)

(Hybrane SL 1520; alkylated hyperbranched polymers as mol. nanosponges for purifn. of water from polycyclic arom. hydrocarbons)

IT 25722-70-7D, reaction products with dodecyl and octadecyl isocyanate

RL: PRP (Properties); TEM (Technical or engineered material use);

USES

(Uses)

(Polyglycerin PG 5; alkylated hyperbranched polymers as mol. nanosponges for purifn. of water from polycyclic arom. hydrocarbons)

IT 107-13-1D, Acrylonitrile, Michael addn. polymers, reaction products with dodecyl and octadecyl isocyanate 112-96-9D, Octadecyl isocyanate, reaction products with hyperbranched polymers 4202-38-4D, Dodecyl isocyanate, reaction products with hyperbranched polymers

RL: PRP (Properties); TEM (Technical or engineered material use);

USES

(Uses)

(alkylated hyperbranched polymers as mol. nanosponges for purifn. of water from polycyclic arom. hydrocarbons)

IT 85-01-8, Phenanthrene, processes 129-00-0, Pyrene, processes 206-44-0, Fluoranthene

RL: REM (Removal or disposal); PROC (Process)

(alkylated hyperbranched polymers as mol. nanosponges for purifn. of water from polycyclic arom. hydrocarbons)

RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD

- (1) Arkas, M; Chem Mater 2003, V15, P2844 CAPLUS
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=> s 362603-93-8/RN
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L4 22 362603-93-8/RN
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=> d L5 1-10 ti

L5 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN

TI Polyesteramides and compositions comprising them

L5 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN
 TI Water borne coating composition containing a polyesteramide

L5 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN
 TI Heterocyclic substituted condensation polymers for cosmetics

L5 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN
 TI Manufacture of modified lipophilic dendritic and hyperbranched polymers
 for water purification

L5 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN
 TI Water-soluble polymeric dye

L5 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN
 TI Hot-melt ink comprising a mixture of fluorescent dyes and non-fluorescent dyes

L5 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN
 TI Washable waterborne ink comprising polymers having acid functional groups

L5 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN
 TI Process for preparing hyperbranched polyesteramide compositions containing modified clays

L5 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN
 TI Enhancement of dye solubility using branched poly(amide esters)

L5 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN
 TI Structural characterization of hyperbranched polyesteramides: MSn and the origin of species

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L5 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2007:1469397 CAPLUS <<LOGINID::20081021>>
 DOCUMENT NUMBER: 148:79500
 TITLE: Polyesteramides and compositions comprising them
 INVENTOR(S): Van Benthem, Rudolfus Antonius Theodorus Maria;
 Friederichs, Joseph Petronella; Molhoek,
 Leendert Jan
 PATENT ASSIGNEE(S): Dsm Ip Assets B.V., Neth.
 SOURCE: PCT Int. Appl., 28pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2007147560 A1 20071227 WO 2007-EP5386
 20070619
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,
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EP 1873188 A1 20080102 EP 2006-12496
 20060619
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FORMAT

IT 149-57-5DP, 2-Ethylhexanoic acid, reaction product with succinic
 anhydride-diisopropanolamine copolymer ***362603-93-8DP*** ,
 Succinic
 anhydride-diisopropanolamine copolymer, reaction product with
 2-ethylhexanoic acid ***362603-93-8P*** , Succinic
 anhydride-diisopropanolamine copolymer 362603-95-0P, Succinic
 anhydride-hexahydrophthalic anhydride-diisopropanol amine copolymer
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 (polyesteramides and comps. comprising them)

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